



CourseContents:

1.Python

- Knowing Python
- Installing the Environment
- Getting familiar to Python IDE
- Why prefer python over others!

2. BeforeStartoff: Expressions & Operators

- Python Syntax
- Including Comments , Indentation
- Python Variables
- Operators &python Keywords

3.Python Data Types

- Data : Numeric - int, float, long, complex
- Strings types(raw, Unicode), properties, methods, indexing, sequencing slicing, finding string in strings, finding string in string with numbers . . .
- Lists, Tuples, Sets, Range, Xrange& List
- Dictionary and Maps

3.Strings,Lists,Dictionary

- Structured Data: List & its properties
- List properties, indexing, slicing
- Strings are special kinds of lists
- Nested Lists
- Mutation (of strings and lists)
- Aliasing
- List Operations (append, plus, len, extent)
- Union procedure for list
- List.pop()
- Dictionary Operations
- Using Dictionary in Index

4.Data Flow Control

- Introduction to control flow
- *Conditional statements:* if-elif-else
- *Loops:* FOR and WHILE loop



- Factorial using while loop
- In operator, index operator
- *Statements*: Break, continue and pass

5. Function & Packages

- Def Function
- Logical, Boolean Expressions
- Function recipe and docstring
- Function with and without parameters
- Functions reusability and recursive functions
- Creating modules and packages
- Importing Modules

6. File Handling: Working with files

- Begin with python file I/O
- File handling permission
- read(), write() and Append Operation
- Readline(), seek() and tell()
- Lambda function , Generator Expression

8. Beginners' End: Error & Exception Handling

- Introduction to errors and exceptions
- Exception hierarchy
- try-except block
- finally and else
- Debugging - assert and raise

9. Python: The Developers Way

- Data Structure
- Building index using list and performing lookup
- Network, latency, bandwidth, traceroute and bit
- Efficient Algorithms
- Recursive Definitions
- Base Case and recursive case
- Factorial using Recursion
- Palindromes
- Fibonacci Numbers
- Introduction to Ranking Web Pages (Page Rank)



10. OOP Programming

- Introduction to OOPS concepts
- Programming with Classes & Object
- Inheritance: Programming using Python
- Overriding and overloading
- Information hiding
- `__init__()`, self and other class methods

11. Python in Interactive way: The WEB

- HTML Tags
- Developing web pages using Python
- CGI Environment with Python
- **HTTP** : GET POST Requests
- Passing Data using Button Requests
- Custom Post Handler & more..

12. Command Line Arguments with Python

14. Python with Django



Projects:

- **Building A Dynamic Website:**
Description: This is a dynamic webpage creation project using **Django** Framework &**HTML** front end designing.
- **Build up Python Tasks : Palindrome, Fibonacci Series**
- **Extracting Links from a webpage**
- **Printing all links from a webpage ... & a lot**

ToolKitContent:

- SoftwareTool Kit.

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For any further Detail Please Contact..!!!

Nitesh Pratap
Business Head
Technospecies Global Solution
E-Mail:
stp@technospecies.com
info@technospecies.com
Mobile: +91-9990730607